		EQUIPMENT LIST			
PROJECT DESCRIPTION	A. EQUIPMENT TO BE S	SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR INTITY DESCRIPTION	THE FOLLOWING CONTACT PERSONS FOR		
I. GENERAL THIS PROJECT IS LOCATED AT THE INTERSECTION OF MD 235 AND CORPORATE DR. IN	90000l LE		DISTRICT * 5 ARE AS FOLLOWS:		
SAINT MARY'S COUNTY, MARYLAND AND INVOLVES ROADWAY IMPROVEMENTS, THE CONSTRUCTION OF A NEW SIGNAL THAT IS EFFECTED BY THESE IMPROVEMENTS.	900001 2 8		Mr. Richard L. Daff Sr. Chief, Traffic Operations Division		L.M.N.
MD 235 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.	900001 60		(410) 787-7630		
II. INTERSECTION OPERATION	- 1 EA		Mr. Larry Elliot Asst. District Engineer - Traffic (410) 841-5450	WIRING DIAGRAM	
THE PROPOSED TRAFFIC SIGNAL WILL OPERATE IN A NEMA SIX (6) PHASE, FULLY	,	(18 IN. X 96 IN.) - MAST ARM MOUNT	(410) 841-5450		
TRAFFIC ACTUATED MODE. THE MD 235 APPROACHES WILL OPERATE CONCURRENTLY. WITH AN EXCLUSIVE LEFT TURN PHASE FOR NORTHBOUND TRAFFIC. NORTHBOUND THROUGH TRAFFIC	- I EA	R3-2MOD SIGN "NO LEFT TURN / NO U TURN' (30 IN. X 30 IN.) - MAST ARM MOUNT	Mr. John Mays	·	
WILL NOT HAVE SIGNAL FACES AND WILL ALWAYS HAVE THE RIGHT OF WAY, THE CORPORATE DR. APPROACH WILL OPERATE SEPERATE.	- 1 EA		Acting Engineer - Utility (410) 841-5450		F.L.M K
A NEW EIGHT PHASE FULLY TRAFFIC ACTUATED CONTROLLER WITH TWO (2) FOUR CHANNEL		(24 IN. X 24 IN.) - GROUND MOUNT	Mr. Paul Armstrong District Engineer	PRO C **	
RACK MOUNTED LOOP DETECTOR AMPLIFIERS, TELEMETRY MODULE, AND INTERSECTION MONITOR WITH BATTERY BACK UP HOUSED IN A NEMA SIZE SIX (6) BASE MOUNTED CABINET.	- I E/	SHIELD ASSEMBLY "NORTH, MD 235, LEFT ARROW @ 45 SOUTH, MD 235, RIGHT ARROW" (24 IN. X 78 IN.) - MAST ARM MOUNT	(410) 841-5450	₽ B *	S-K A.B.C.D.E.F G.H.I.J.K.L.M.R
	- 1 <i>E</i> /		Mr. Charles Georges Asst. District Engineer - Maintenance	8 * √ * √	K.R — A.B.C.D.E.F
III. SPECIAL NOTES 1. THE SIGNAL SHOP WILL BE NOTIFIED TO PERFORM INTERNAL WIRING OF THE CABINET		(18 IN. X 18 IN.) - GROUND MOUNT	(410)841-5450	8 ^ * √	A.B.C.H.J.K — G.K.R. G.K.R. G.K.R. G.K.L.M.R
AT MD 235 AND CORPORATE DR. ALL CABLE SHALL BE IDENTIFIED AND BROUGHT INTO THE CONTROLLER BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY MR. EDWARD	- 1E/	A. R4-7 SIGN *KEEP RIGHT* (24 IN. X 30 IN.) - GROUND MOUNT		A,B,C A,B,C	P→H S
RODENHIZER, SHA SIGNAL SHOP AT (410) 787-7650 SEVENTY-TWO (72) HOURS IN ADVANCE	- 1 EA	A. R4-7al SIGN "KEEP LEFT"			I + PIX X
OF THIS WORK.		(24 IN. X 30 IN.) - GROUND MOUNT			
2. MOT PLATES FOR THIS PROJECT WILL BE AS FOLLOWS: 104.00 TO 104.00-12, 104.02-01, 104.03-01	- 2 E	A. R5-I SIGN 'DO NOT ENTER' (30 IN. X 30 IN.) - GROUND MOUNT	The Power Company Representative is:	WIRING KEY	D E P.S. OVERHEAD
			SOUTHERN MARYLAND ELECTRIC COMPANY	A.B.C MICRO PROBE CABLE	G.I.K.Q.R
	B. EQUIPMENT TO BE SUPE	PLIED AND INSTALLED BY THE CONTRACTOR	P. O. BOX 12B	D.E.F 2 CONDUCTOR ELECTRICAL CABLE ALUMINUM SHIELDED	LW LW
•	ITEM NO. QUANTIT	· ·	LEONARDTOWN MARYLAND 20650 (301) 475–5631	G 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG TYPE 1	[.C.)
	203030 4 CY	TEST PIT EXCAVATION	(3017 413 3031	H.I 3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	
CONSTRUCTION DETAILS	585620 165 LF	FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED PAVEMENT MARKING (CROSSWALK)		J.K.L.M 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	
(A) INSTALL 12 IN. X 27 FT. STEEL POLE WITH 50 FOOT MAST ARM, SIGNAL HEADS, SIGNS,	585624 100 LF	FURINSH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED	· · · · · · · · · · · · · · · · · · ·	N.O.Q STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)	
ONE WAY PEDESTRAIN SIGNAL HEADS, OPTICOM DETECTOR EYE AND 15 FOOT LIGHTING ARM 250 WATT H.P.S. LUMINAIRE (NOTE: ONE 4 INCH AND ONE 3 IN. SCHEDULE 80,	303024 100 Er	PAVEMENT MARKING (STOP LINE)		R 4 CONDUCTOR OPTICOM DETECTOR CABLE (NO. 20 AWG)	
90 DEGREE PVC CONDUIT BEND, 4 - 2 1/4IN. X 96 IN. ANCHOR BOLTS)	801004 11.89 C	Y FURNISH AND INSTALL CONCRETE SIGNAL FOUNDATION		S 1 CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG) PRO MICRO LOOP PROBES	
B INSTALL 12 IN. X 27 FT. STEEL POLE WITH 38 FOOT MAST ARM, SIGNAL HEADS,	8050II 30 LF	FURNISH AND INSTALL I IN. ELECTRICAL CONDUIT - GALVANIZED SLEEVE		PRO MICRO LOOP PROBES LW LOOP WIRE	
SIGNS, (CUT AND CAPPED TO 30 FOOT) (NOTE: ONE 3 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BEND, 4 - 2 1/4 IN. X 96 IN. ANCHOR BOLTS)	870161 75 LF	FURNISH AND INSTALL 2 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - PUSHED AND BORED		× GROUND ROD	
© INSTALL 12 IN. X 27 FT. STEEL POLE WITH 38 FOOT MAST ARM, SIGNAL HEADS,	870160 300 LI	F FURNISH AND INSTALL 2 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED		PS POWER SOURCE	
SIGNS, ONE-WAY PEDESTRIAN SIGNAL HEADS (CUT AND CAPPED TO 30 FOOT) (NOTE: I - 3 INCH SCHEDULE 80, 90 DEGREE PVC CONDUIT BEND, 4 - 2 1/4IN.	870163 40 LF	FURNISH AND INSTALL 3 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED		13 TOREN SOUNCE	
X 96 IN. ANCHOR BOLTS)	870164 I50 LF	FURNISH AND INSTALL 3 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - PUSHED AND BORED			
D INSTALL NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER	870166 30 LF	FURNISH AND INSTALL 4 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED		•	
(E) INSTALL 6 FT. X 30 FT. QUADROUPLE LOOP DETECTOR ENCASED IN 1/4 IN.	805160 30 LF	FURNISH AND INSTALL I IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECOR SLEEVE		·.	
FLEXIBLE TUBING (3-6-3 TURNS)	811001 7 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE		•	
F INSTALL ELECTRICAL HANDHOLE	813014 28.75	LF INSTALL GROUND MOUNT SIGN			
© INSTALL I IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT	8 30 5 3 .25 9	SF INSTALL OVERHEAD SIGN			
FOR DETECTOR SLEEVE	831010 I EA	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE WITH PHOTO CELL			
(H) INSTALL 2 IN. SCHEDULE 80 POLYVINYL CHLORIDE CONDUIT- TRENCHED	8 0≥5⊙ ¥ 100 LF	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE			
J INSTALL 2 IN. SCHEDULE 80 POLYVINYL CHLORIDE CONDUIT-	00-00 F	(NO. 6 AWG)			
BORED	807265 IEA	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPTMENT			
(K) INSTALL 3 IN. SCHEDULE 80 POLYVINYL CHLORIDE CONDUIT-	860272 (8 EA	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION (BLACK FACED SIGNAL HEAD)			
TRENCHED	000272			1 2 3 4 5 6 7	8 9
(L) INSTALL 24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE (STOP LINE)	860274 3 EA	FURNISH AND INSTALL 12 INCH OPTICALLY PROGRAMMED TRAFFIC SIGNAL HEAD SECTION (BLACK FACED SIGNAL HEAD)		PHASE CHART & & & & & & & & & & & & & & & & & & &	
M INSTALL 4 IN. SCHEDULE 80 POLYVINYL CHLORIDE CONDUIT-	860278 4 EA	FURNISH AND INSTALL 12 INCH PEDESTRIAN SIGNAL HEAD SECTION (BLACK FACED)		PHASE CHART & & & & & & & & & & & & & & & & & & &	出 出
BORED	860288 75 LF			PHASE 2 & 5 R R +G- G G R R	DW DW -
N INSTALL 4 IN. SCHEDULE 80 POLYVINAL CHLORIDE CONDUIT-	86III6 50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2 CONDUCTOR NO. 12 AWG		PHASE 2 & 5 CHANGE R R +Y- Y Y R R	
TRENCHED	86II04 170 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR ALUMINUM SHIELDED		PHASE 2 & 6 GGRRRR	W W
O INSTALL 12 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE (CROSSWALK)	861106 190 LF	FURNISH AND INSTALL ELECTRICAL CABLE 3-CONDUCTOR (NO-14 AWG)		PED CLEAR G G R R R R	FL/DW FL/OW
P INSTALL GROUND MOUNT SIGN	861107 650 L	F FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)		PHASE 2 & 6 CHANGE Y Y R R R R	DW DW
INSTALL MICRO LOOP PROBES 500 FT. LEAD-IN	862101 1300 L	F FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)		PHASE 4 CHANGE R R R R R Y Y	DW DW
	862102 500 L	F FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)			
® INSTALL I IN. ELECTRICAL CONDUIT GALVANIZED SLEEVE.	86610 3 I EA	FURNISH AND INSTALL 15 FT. LIGHTING ARM ON SIGNAL STRUCTURE		FLASHING OPERATION . FL/Y FL/R FL/R FL/R FL/R FL/R FL/R	R DARK DARK
	. •				:
	800000 3 EA	FURNISH AND INSTALL MICROLOOP PROBE SET 500 FT. LEAD IN.			
	871202 I EA	INSTALL CONTROLLER AND CABINET - BASE MOUNTED	REVISIONS	APPROVALS MARYLAN	D DOT - STATE HIGHWAY ADMINISTRATION
	860292 2 EA	CUT CLEAN GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE			ffice of Traffic & Safety
	800000 2 EA	FURNISH AND INSTALL MAST ARM POLE 27'W/ 38 FT. MAST ARM		TEAM I CADED TRACCIC ENCINECEDING DECICAL DIVISION	IGINEERING DESIGN DIVISION
	800000 I EA	FURNISH AND INSTALL MAST ARM POLE 27' W/ 50 FT. MAST ARM		I IVAT TO ET	ATTICULTY DUDIGH DIVIDION
	83700I 4 EA	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIA. X 10 FOOT LENGTH		ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION	MD 235 AND CORPORATE DRIVE
	810010 80 LF	FURNISH AND INSTALL ELECTRICAL CABLE I CONDUCTOR NO 4 AWG THHN/THWN			
	801104 70 LF	FURNISH AND INSTALL WOOD SIGN SUPPORT 4" X 4"		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION DRAWN BY: R. LLEWELLYN	F.A.P. NO. TS NO.
	8050II 15 LF	FURNISH AND INSTALL I IN. ELECTRICAL CONDUIT - GALVANIZED SLEEVE		CHECKED BY: C. MUNZ SCALE: 1 = 20'	S.H.A. NO. SM7685370 SHEET NO. COUNTY: SAINT MARY'S T.I.M.S. NO.
	800000 I EA	FURNISH AND INSTALL 3M OPTICOM * 721 DETECTOR EYE		DATE: 04/2000	LOG MILE: 18023512.15 3848 98 OF 154
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